

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/827,648	04/06/2001	Magnus Karlsson	TI-32580	6562
7590 10/27/2004			EXAMINER	
Bobby D. Slaton			MACE, BRAD THOMAS	
Jackson Walker L.L.P. 2435 North Central Expressway, Suite 600 Richardson, TX 75080			ART UNIT	PAPER NUMBER
			2663	

DATE MAILED: 10/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)				
		09/827,648	KARLSSON ET AL.	KARLSSON ET AL.			
		Examiner	Art Unit				
		Brad T. Mace	2663				
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet	with the correspondence address -				
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA msions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) dato period for reply is specified above, the maximum statutor tree to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 'CFR 1.136(a). In no event, however, may ation. ys, a reply within the statutory minimum of try period will apply and will expire SIX (6) Mit by statute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	ation.			
Status							
1)[Responsive to communication(s) filed o	n					
2a)[_	2a) This action is FINAL . 2b) This action is non-final.						
3)⊠	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	\					
5)□ 6)□ 7)⊠	Claim(s) 1-28 is/are pending in the appl 4a) Of the above claim(s) is/are we Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) 1-28 is/are objected to. Claim(s) are subject to restriction	vithdrawn from consideration.	•				
Applicat	ion Papers	•					
9)⊠	The specification is objected to by the Ex	xaminer.					
	10)⊠ The drawing(s) filed on <u>16 July 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)						
1) Notice	e of References Cited (PTO-892)		Summary (PTO-413)				
3) Infon	te of Draftsperson's Patent Drawing Review (PTO-mation Disclosure Statement(s) (PTO-1449 or PTC er No(s)/Mail Date		o(s)/Mail Date f Informal Patent Application (PTO-152) 	· <u>-</u>			

Application/Control Number: 09/827,648 Page 2

Art Unit: 2663

DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

Specification

- 2. The abstract of the disclosure is objected to because (12) should be (112) on line 13 of pg. 56. Correction is required. See MPEP § 608.01(b).
- 3. The disclosure is objected to because of the following informalities:

On pg. 3, line 1, "communication" should be changed to "communicate".

On pg. 5, line 16, "Asynchronous" should be changed to "asynchronous".

On pg. 5, line 16, "cell" should be changed to "cells".

On pg. 18, line 12, "operation" should be changed to "Operation".

On pg. 29, line 11, "he" should be changed to "be".

On pg. 38, lines 1-4 do not correlate with Figure 5? (Reference numbers do not correlate with Figure 5).

On pg. 45, line 6, "contains" should be changed to "containing".

On pg. 37, line 16, "AAL" should be changed to "AAL2".

"DSP 160" should be replaced with "DSP 412" appropriately throughout the "AAL2 Receiver" section.

"host 190" should be replaced with "host 414" appropriately throughout the "AAL2 Receiver" section.

Appropriate correction is required.

Drawings

Art Unit: 2663

4. The drawings are objected to because:

Reference 101 is not shown in Figure 1 as stated by the specification on line 16 of pg.

11.

Reference 145 of Figure 2 is not mentioned in the specification.

Reference 412 and 414 is not mentioned in the specification.

Reference 614 has been used to designate two separate items in Figure 6B, appropriate correction in the specification is also needed.

Reference 412 has been used to designate "DSP A" and "DSP B" in Figure 5, while the corresponding "AAL2 Rx FIFO" have different reference numbers, hence "DSP A" and "DSP B" should be labeled separately.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be

Application/Control Number: 09/827,648

Art Unit: 2663

notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

5. Claims 1, 2, 9, 11, 15, 16, 20, 23, and 25 are objected to because of the following informalities:

In claim 1, line 8, "interconnet" should be "interconnect".

In claim 1, line 10 "bus" should be placed between "interconnect" and "and".

In claim 1, line 16, and claim 15, line 16, "connector" should "connection".

In claim 1, line 21, "instruction" should be "instructions".

In claim 1, line 21, a period is needed after unit.

In claim 2, line 3, and claim 16, line 3, "memory" should be removed.

In claim 9, line 2, and in claim 23, line 2, it is not clearly pointed out as to what "VPI/VCI" stands for.

In claim 11, line 2, and claim 25, line 2, it is not clearly pointed out as to what "VP/VC" stands for.

In claim 20, line 1, "15" should be "19".

Appropriate correction is required.

6. Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Allowable Subject Matter

- 7. Claims 1-28 allowed.
- 8. The following is an examiner's statement of reasons for allowance: The prior art fails to teach or make obvious:

a processing unit coupled to said first interconnect bus for communication to said scheduler, said register block and said look-up table, and is operably configured to couple to said second interconnect bus for communication to said connector state unit and said communication ports, said processing unit is further operably configured to transmit communication data cells between communication ports based on information collected from said register block, said look-up table, said connection state unit, and said scheduler module;

considered in combination with other components recited in claims 1 and 15. It is noted that in the closest prior art, Bergantino et al. discloses an ATM cell processing system that incorporates the use of a CPU (having registers) for communicating with a cell scheduling system, a control memory (having look-up tables), an instruction cache (program memory unit), and an external state status block. However, Bergantino et al. fails to disclose or render obvious the above limitations and in combination with the other limitations set forth in claims 1 and 15.

9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/827,648

Art Unit: 2663

Conclusion

Page 6

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

*Bergantino et al. discloses an ATM cell processing system that incorporates the use of a CPU (having registers) for communicating with a cell scheduling system, a control memory (having look-up tables), an instruction cache (program memory unit), and an external state status block (see Figure 1B, and 2).

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brad T. Mace whose telephone number is (571) 272-3128. The examiner can normally be reached on Monday -Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

btm

Brad T. Mace

CHAU NGUYEN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

Cleme To Ufugue

Application/Control Number: 09/827,648

Art Unit: 2663

Examiner Art Unit 2663

btm

October 12, 2004

Page 7